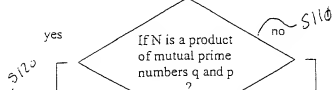


Fig. 1

Input of Number of Frequencies n
Desired Sequence Length m

STEP 1

Generates sequences that are finite with length or infinite with period n



Case 1

Case 2 $\sim S130$

Input Initial Vector of Frequency Indices:

$a_0, a_1, \dots, a_{n-2}, a_{n-1}$ $\sim S140$

Begin:

$a_l^{(0)} = a_l$ $\sim S150$

$l = 0, 1, 2, \dots, n-1$

For $k > 0$:

$a_l^{(k)} = a_{l_k}$ $\sim S160$

$l = i \cdot q + j$ $\sim S170$

$i = 0, 1, 2, \dots, p-1$

$j = 0, 1, 2, \dots, q-1$

$l_k = [(i + k_1) \bmod p] \cdot q + (j + k_2) \bmod q$

$k_1 = k_2 = k$ $\sim S180$

$k_1 = [(k \bmod 2)(k+1)/2 + (1-k \bmod 2)k/2] \bmod n$
 $k_2 = [(1-k \bmod 2)k/2 + (k \bmod 2)(k-1)/2] \bmod n$ $\sim S190$

no

yes $\sim S2000$

$k \geq m$?

yes $\sim S2100$

no $\sim S2300$

$m > n$?

Step 2

Repeat (sequence has period n) $\sim S2200$

\Rightarrow Non-periodic sequence or sequence with period $> n$

FIG. 2

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STEP 2

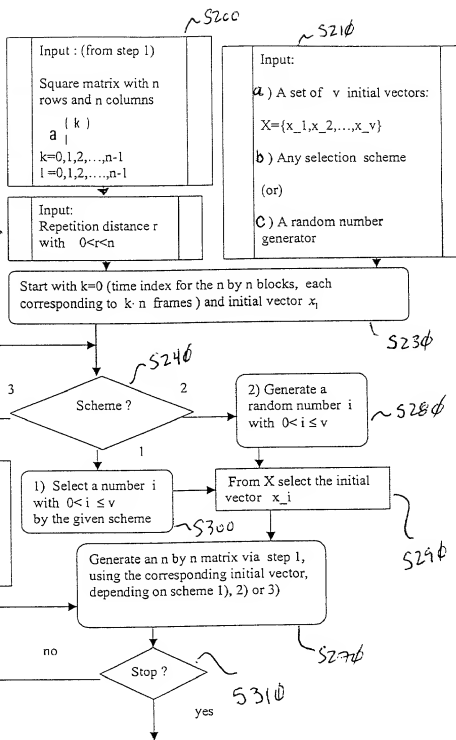
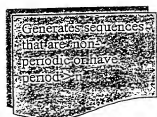


FIG. 3